



CONTENTS OF VOLUME 122

Vol. 122B, No. 1

General Papers

- L. M. Romero and J. C. Wingfield
S.-H. Hong, H.-J. Park and K.-H. Kong
H. Jiang and P. V. Malven
M. Nicolai, J.-P. Delbecq, J. Delachambre and J.-J. Lenoir-Rousseaux
G. G. Foster, A. N. Hodgson and C. S. Boyd
T. Z. Berardini, A. B. Amsden, E. E. Penhoet and D. R. Tolan
H. A. D. Johard, C. Risinger, D. R. Nässel and D. Larhammar
S. Stoeva, P. Dolashka, R. Hristova, N. Genov and W. Voelter
T. Gollas-Galván, J. Hernández-López and F. Vargas-Albores
H. Hildebrandt, U. Jonas, M. Ohashi, I. Kläiber and H. Rahmann
T. Kojima, M. Nishimura, T. Yajima, T. Kuwata, Y.-i. Suzuki, T. Goda, S. Takase and E. Harada
O. J. Rimoldi, J. L. Soulages, G. S. Finarelli and R. R. Brenner
K.-i. Shofuda, T. Togawa, H. Nakato, S. Tomino and S. Izumi
H. Vierimaa, M.-L. Sassi, E. Eloranta, M. Rahiala, J. Timisjärvi, S. Saarela and J. Risteli
L. Ma and P. Johnson
J. A. Ferraz de Lima, B. Oliveira and J. M. Conlon
- 13 Alterations in hypothalamic-pituitary-adrenal function associated with captivity in Gambel's white-crowned sparrows (*Zonotrichia leucophrys gambelii*)
21 Purification and biochemical properties of glutathione S-transferase from *Oryza sativa*
29 Interaction between anterior pituitary prodynorphin and the secretion of luteinizing hormone (LH)
39 Is tubulin the sole antigen recognized by a putative anti-bursicon antibody?
47 Polysaccharolytic activity of the digestive enzymes of the macroalgal herbivore, *Turbo sarmaticus* (Mollusca: Vetigastropoda: Turbinidae)
53 Identification of conserved promoter elements for *aldB* and isozyme specific residues in aldolase B
63 The highly conserved synapse protein SNAP-25 displays sequence variability in the cockroach *Leucophaea maderae*
69 Subunit composition and N-terminal analysis of arthropod hemocyanins
77 Prophenoloxidase from brown shrimp (*Penaeus californiensis*) hemocytes
83 Direct electrospray-ionization mass spectrometric analysis of the major ganglioside from crucian carp liver after thin layer chromatography
89 Developmental changes in the regional Na⁺/glucose transporter mRNA along the small intestine of suckling rats
97 Purification and properties of a small lipid-binding protein from the hemolymph of *Triatoma infestans*
105 Molecular cloning and characterization of a cDNA encoding a larval cuticle protein of *Bombyx mori*
111 Annual serum PICP and ICTP and antler growth in female reindeer (*Rangifer tarandus tarandus*)
119 Antihypertensive drug therapy and antioxidant enzyme mRNA levels in spontaneously hypertensive (SHR) rats
127 Purification and characterization of insulin and peptides derived from proglucagon and prosomatostatin from the fruit-eating fish, the pacu *Piaractus mesopotamicus*

Instructions to Authors
Announcements

Vol. 122B, No. 2

Review

- I. Navarro, B. Leibush, T. W. Moon, E. M. Plisetskaya, N. Baños, E. Méndez, J. V. Planas and J. Gutiérrez

General Papers

- M. S. Parker and D. D. Ourth
K. Yoshida, Y. Suzuki, K. Yamamoto and H. Sinohara
- 137 Insulin, insulin-like growth factor-I (IGF-I) and glucagon: the evolution of their receptors
155 Specific binding of human interferon- γ to particulates from hemolymph and protocerebrum of tobacco hornworm (*Manduca sexta*) larvae
165 Guinea pig α_1 -microglobulin/bikunin: cDNA sequencing, tissue expression and expression during acute phase

- B. Magnadóttir, H. Jónsdóttir, S. Helgason, B. Björnsson, T. Ö. Jørgensen and L. Pílrörm
- B. Magnadóttir, H. Jónsdóttir, S. Helgason, B. Björnsson, T. Ö. Jørgensen and L. Pílrörm
- T. R. F. Janeiro-Cinquini, P. E. M. Ribolla, M. L. Capurro and C. E. Winter
- R. L. Cooper and W. S. Neckameyer
- J. L. Concepcion, B. Chataing and M. Dubourdieu
- D. R. Nelson, C. L. Fatland and T. S. Adams
- M. Tamburrini, M. Romano, B. Giardina and G. di Prisco
- D. Dziewulska-Szawajkowska and A. Dżugaj
- C. Sabourault, G. de Sousa, M. Amichot, A. Cuany, R. Rahmani, J.-P. Salaün, J.-B. Bergé, J.-P. Girard and M. Lafaurie
- B. Focant, E. Rosecchi and A. J. Crivelli
- 173 Humoral immune parameters in Atlantic cod (*Gadus morhua* L.): I. The effects of environmental temperature
- 181 Humoral immune parameters in Atlantic cod (*Gadus morhua* L.): II. The effects of size and gender under different environmental conditions
- 189 Vitellogenin and yolk protein processing in *Bothrops jararaca* (Wied), a tropical venomous snake
- 199 Dopaminergic modulation of motor neuron activity and neuromuscular function in *Drosophila melanogaster*
- 211 Purification and properties of phosphoglucose isomerases of *Trypanosoma cruzi*
- 223 Very long-chain methyl-branched alcohols and their acetate esters in pupal internal lipids of developing Coleoptera, *Anthonomus grandis* and *Cylindrocopturus adspersus*, and Diptera, *Cochliomyia hominivorax* and *Musca domestica*
- 235 The myoglobin of Emperor penguin (*Aptenodytes forsteri*): amino acid sequence and functional adaptation to extreme conditions
- 241 Regulatory properties of *Rana esculenta* liver D-fructose-1,6-bisphosphate 1-phosphohydrolase and their comparison with properties of other vertebrate liver isoenzymes
- 253 Tissue-specific induction and inactivation of cytochrome P450 catalysing lauric acid hydroxylation in the sea bass, *Dicentrarchus labrax*
- 261 Attempt at biochemical characterization of sand smelt *Atherina boyeri* Risso, 1810 (Pisces, Atherinidae) populations from the Camargue (Rhône delta, France)

Instructions to Authors
Announcements

Vol. 122B, No. 3

General Papers

- M. Alves-Ferreira, H. M. Scofano and A. Ferreira-Pereira
- N. S. Shelud'ko, K. F. Tuturova, T. V. Permyakova, S. V. Plotnikov and A. A. Orlova
- M. W. Greene, M. J. Shablott and T. T. Chen
- M. P. Piacentini, D. Ricci, D. Fraternali, E. Piatti, A. Manunta and A. Accorsi
- K. Vajda, M. W. J. Ferguson, J. H. Shand, R. C. Noble and B. K. Speake
- C. Chen, A. F. Rowley, R. P. Newton and N. A. Ratcliffe
- Y. Abe, G. Ishikawa, H. Satoh, K. Azumi and H. Yokosawa
- F. J. Moyano López, I. Martínez Díaz, M. Díaz López and F. J. Alarcón López
- S. Kanoh, E. Niwa, Y. Osaka and S. Watabe
- M. J. Lemke, M. Chiva, B. Coyle, D. Kulak, M. MacKay and H. E. Kasinsky
- A. Jakubiec-Puka, I. Ciechomska, J. Morga and A. Matusiak
- 269 Ca^{2+} -ATPase from chicken (*Gallus domesticus*) erythrocyte plasma membrane: effects of calmodulin and taurine on the Ca^{2+} -dependent ATPase activity and Ca^{2+} uptake
- 277 A novel thick filament protein in smooth muscles of bivalve molluscs
- 287 Presence of GH-dependent IGF-II mRNA in the diffuse pancreatic tissue of a teleost
- 293 Effects of UV-C irradiation on phosphoinositide turnover in plant cells: similarities with those occurring via the formation of reactive oxygen intermediates in animal cells
- 301 Activities of acyl-CoA:cholesterol acyltransferase and cholesteryl ester hydrolase in the yolk sac membrane of the alligator (*Alligator mississippiensis*) embryo
- 309 Identification, purification and properties of a β -1,3-glucan-specific lectin from the serum of the cockroach, *Blaberus discoidalis* which is implicated in immune defence reactions
- 321 Primary structure and function of superoxide dismutase from the ascidian *Halocynthia roretzi*
- 327 Inhibition of digestive proteases by vegetable meals in three fish species; seabream (*Sparus aurata*), tilapia (*Oreochromis niloticus*) and African sole (*Solea senegalensis*)
- 333 Effects of urea on actin-activated Mg^{2+} -ATPase of requiem shark myosin
- 339 Variability of sperm nuclear basic proteins in the three-spined stickleback and related species of Gasterosteidae
- 355 Contents of myosin heavy chains in denervated slow and fast rat leg muscles
- 363 Corrigendum
- 365 Erratum
- Instructions to Authors

Review

N. Chikhi, N. Holic, G. Guellaen and Y. Laperche

- 367 Gamma-glutamyl transpeptidase gene organization and expression: a comparative analysis in rat, mouse, pig and human species

General Papers

K. Montano-Pérez, G. Yepiz-Plascencia,
I. Higuera-Ciapa and F. Vargas-Albores

- 381 Purification and characterization of the clotting protein from the white shrimp *Penaeus vannamei*

E. Ottaviani, D. Malagoli and D. Kletsas

- 389 Platelet-derived growth factor and transforming growth factor- β induce shape changes in invertebrate immunocytes via multiple signalling pathways and provoke the expression of Fos-, Jun- and SMAD-family members

H. Yamashiro, H. Oku, H. Higa, I. Chinen and
K. Sakai

- 397 Composition of lipids, fatty acids and sterols in Okinawan corals

J. Yang, S. Furukawa, A. Sagisaka, J. Ishibashi,
K. Taniai, T. Shono and M. Yamakawa

- 409 cDNA cloning and gene expression of cecropin D, an antibacterial protein in the silkworm, *Bombyx mori*

B. Y. Jeong, T. Ohshima and C. Koizumi

- 415 Changes in fatty chain compositions of lipid classes during frozen storage of the adductor muscle of giant ezo scallop (*Patinopecten yessoensis*)

F. A. M. Volckaert, J. W. M. Mugoyo,
O. Lescroart, L. Grisez and F. Ollevier

- 423 Immunohistochemically detected ontogeny of prolactin and growth hormone cells in the African catfish *Clarias gariepinus*

M. Polo, M. G. de Bravo and C. Carbone

- 433 3-Hydroxy-3-methylglutaryl coenzyme A reductase activity in liver of athymic mice with or without an implanted human carcinoma

M. Ogawa, R. Miyagi, T. Tamiya and T. Tsuchiya

- 439 Comparison of the stability of fish light meromyosins by guanidine hydrochloride denaturation

C. A. Fisher, R. S. Kiss, G. A. Francis, P. Gao and
R. O. Ryan

- 447 Human apolipoprotein E N-terminal domain displacement of apolipoprotein III from insect low density lipoprotein creates a receptor-competent hybrid lipoprotein

M. Suzuki, Y. Narita, S.-I. Oda, A. Moriyama,
O. Takenaka and T. Kageyama

- 453 Purification and characterization of goat pepsinogens and pepsins

S.-S. Jeng, J.-T. Wang and L.-T. Sun

- 461 Zinc and zinc binding substances in the tissues of common carp

III Volume Contents, Subject and Author Index for Vol. 122B

Instructions to Authors